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Approved For Release 2001/11/01 : CIA-RDP67R00587A000100030031-9

ADM-2.1

DD/SMT-3821-64

ER 64-27

MEMORANDUM FOR: Deputy Director of Central Intelligence  
THROUGH Executive Director -- Comptroller  
SUBJECT Approval of Funds to Pursue Development of  
General Purpose ELINT Processor

1. This memorandum transmits a recommendation for approval. Such recommendation is contained in paragraph six.
2. The Office of ELINT has a requirement for a means of reducing analog ELINT data to digital form for computer processing in field environments. Its objectives are increased efficiency in analyst manpower, reduced analysis time to provide signal environment information to airborne operations, and a data format suitable for machine processing of statistical parameters of emitters and their locations.
3. [REDACTED] has recently completed a study of the problem, utilizing a general-purpose computer as a processor model. The computer, suitably programmed, was found capable of reducing raw data to printed form with performance comparable to that of a human analyst in less time. Success in the study program resulted in solicitation of the present proposal, which represents a processor suitable for field use with characteristics similar to the previous one. The processor will convert analog ELINT tapes of up to eight kilocycles per second to a digital tape format, a printed emitter list and a visual display for emitter identification.

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GROUP 1  
Excluded from automatic  
downgrading and  
declassification

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4. Cost of the program would be allocated as follows:

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[REDACTED]

25X1A1A

[REDACTED]

X1A1A

Input

FP

Output

FP

Program

CPPT

25X1A5A1

[REDACTED]

SDS 910 computer with appropriate software, one year rental.

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The current (FY-64) ELINT budget includes [REDACTED] for the requested program; the remainder will be obtained by reprogramming.

5. Background data contained in attachments A and B is designed to provide necessary technical information upon which to evaluate the approval action recommended in paragraph six.

6. Based on the foregoing, it is recommended that approval be granted to obligate [REDACTED] for purposes set forth herein.

25X1A1A

ALBERT D. WHELAN  
Deputy Director  
(Science and Technology)

Attachments:

A. Technical Outline

B. [REDACTED] Proposal

25X1A5A1

APPROVED:

25X1A9A

(S)

[REDACTED]

Deputy Director of Central Intelligence

Date

15 May 1964  
[Signature]

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